Emulex LPe16000 HBA Family Firmware Release Notes

Version: 1.1.21.4

Date: October 2012

Purpose and Contact Information

These release notes describe the resolved known issues and current known issues associated with this firmware release.

For the latest product documentation, go to www.Emulex.com. If you have questions or require additional information, contact an authorized Emulex technical support representative at tech.support@emulex.com, 800-854-7112 (US/Canada toll free), +1 714-885-3402 (US/International), or +44 1189-772929 (Europe, Middle East, and Africa).

Resolved Issues

Firmware

1. **The ports link up after a cable pull when running I/O to a tape device.**
2. **A port no longer stops functioning while running I/O and resetting the port.**

FC x86 BootBIOS

There are no resolved issues.

FC FCode/OpenBoot

There are no resolved issues.

FC UEFIBoot

1. **Driver health protocols produced by the LPe16000 driver display the associated controller names.**
2. **An error no longer occurs when an HBA port is reset while I/O is running.**

Known Issues

Firmware

1. **To upgrade the firmware to version 1.1.21.4, the adapter must be running firmware version 1.0.11.108 or later.**

   Workaround

   None.

2. **The minimum firmware version required for adapter is 1.0.15.0. The download will fail if the you attempt download any version lower than 1.0.15.0.**

Workaround

None.

3. **Family Firmware Version is supported on Family Version 01.03.01 and later.**

   To update from a previous Family Version to 03.01.01 and later, do the following:

   1. Use the Dell Update Package (DUP) to update to Family Version 01.03.01 or later.
   2. Reboot the server.
   3. Use the DUP to update the Family Version again. Family Firmware Version will be updated during this step.

General Boot Code

1. **Forced Link Speed Behavior**

   Setting the Forced Link Speed in the Emulex BIOS Utility and the EFI Utility applies only to pre-OS booting. After the operating system boots, the Emulex HBA driver is loaded and performs its own speed negotiation. The link speed setting in OneCommand Manager reflects that value and can change it. The Forced Link Speed setting in the Emulex BIOS Utility and the EFI Utility has no correlation to the value displayed in OneCommand Manager or to the final link speed that is negotiated by the Emulex HBA driver.

   Workaround

   None.

2. **In the Boot for the Fibre Channel Protocol User Manual, some Emulex BIOS Utility (for x86Boot) and UEFI Boot Utility settings do not behave as documented for LPe16000 series adapters:**

   a) For the Link Speed configuration in the Emulex BIOS Utility (page 1143), the 1 Gigabaud setting is not available. Instead, a 16 Gigabaud setting is provided.

   b) For the Topology configuration in the UEFI Boot Utility (page 1195), the Point to Point setting is not available.

   c) For the PLOGI Retry Timer configuration in the UEFI Boot Utility (page 1196), the 200 msec setting is not available. Instead, a 150 msec setting is provided.

   d) For the Link Speed configuration in the UEFI Boot Utility (page 1197), the 1 and 2 Gb/s link speeds are not available. Instead, the following settings are provided:

   Auto negotiate - Default

   4 Gb/s link speed

   8 Gb/s link speed

   8 Gb/s or 4GB/s link speed

   16 Gb/s link speed

   16 Gb/s or 8Gb/s or 4Gb/s link speed

   16 Gb/s or 8Gb/s link speed

   Note: If you use both the Emulex BIOS Utility and the UEFI Boot Utility to configure boot settings, these settings do not persist; you will need to reset them each time you change between the utilities.

Workaround

None.

FC x86 BootBIOS

1. **x86 Boot ROM does not work properly.**

   Workaround

   None.

2. **Links must be established before entering the FC x86 BIOS utility; otherwise, you will receive an error message.**

   Workaround

   None.

FC FCode/OpenBoot

1. **The OpenBoot code initial configuration for Solaris SPARC is improperly set to lpfc mode.**

   Workaround

   Issue a reset-all at the OK prompt, select-device, and set sfs.

FC UEFIBoot

There are no known issues.

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hmac_sha1.c
Version 1.0.0
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hmac_sha1.h
Version 1.0.0
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